NTF Test 229 - Common Research Model Run Log

	Confi		1	Data		1 1	ReC	Т	C1-4-							Mod	h Nur	mhau									Tare			
Series		Trips			α. (deg)	deg)	(million)	Tem (°F)	Slots	0.00	0.20	0.25	0.40 0.50	0.60	0.70			0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	woz	Run	Date	Remarks	
4b	g	Off	0	Type FPD	(deg) A2	(deg) 0	5.0	120	6	122	000	224			205		24	222	222		122			1222		4568	13	8-Oct-19	4409 had issue with data system, voided; pitch to home after 10.5 deg, FWOZ 4568	
					A2inv	180				1.1.1.1.	14,44	44A,	444444	14,44	206	9999	<i>[]</i>	444	444	9999	(44)	444	4,4,4,	0.00	144					
h		h	 		Δ2	0	 	↓ ~	4	1999	<i>}</i>	99A	44 4 444	1444	₩	19949 1994	994 1	207 208	44A	999	1999	affifikati		4444	1999		┿┉	₩₩₩₩	nitch to home at 7 deg	
		····			A2			·		1999	999	994	999 \ 999	1999	209	9990	%	////	999	999)	1993	999	1999	999	1000			•	pitch to home at 7 deg pitch to home at 10.5 deg	
		,	,		A2inv A2 A2inv	180		7		222	1222	22X	22/12/2	1222	210	77777	922	992	222	992	1222	9992	2222	(2222	222				plant to the total deg	
			,	,	A2	0 180				777		224			1000		7/4	211 212			000							,	pitch to home at 7 deg	
					A2inv	180		L		Y222	1222	2224		\mathcal{U}	1///		224.	m	222	2222	(222)			VZZZ	[222]					
				FPD			1			v 2222	וכככט	0000	מטיטשטיטיי	10000		פוניטיטו	שרכים	9999	Cooldo	own	וכככם	0000	19999	פטטטט	פפפס			T 200 - 200 - 200		
سئېسا		Off	0	FPD	A3	190	30.0	-250			9994	994		144	216		34	44A	994			444	1444	1444		4674	13	29-Oct-19	pitch to home at 6.5 deg, BWOZ 4674	
		;			A2inv	180	 			1999	1999	999¥	~~~~~~~	1999	1222		994	218	999	777	1111	9999	1999	1999	1999	4742			nm alarm at -1 5 FWOZ 4742	
		i			A3	0	ļ		4		1777	997X		1777	1777	2222	22X	219	222				7777	222			4~~~	h	pm alarm at -1.5, FWOZ 4742 pm alarm at -3; pitch to home at 6 deg	
		· · · ·			,	1		1		(1) (1)	7773	////		1777	V))))	2222	994	222		221		999)	<i>(7777)</i>			4745 4804	1	•	BWOZ 4745	
		,	,		A4					222	2224	2224		1222	222		224	2224	222		222	2222			222	4804			FWOZ 4804	
		···· <u>·</u> ····		ļ <u>;</u>		ļ <u>;</u>	ł .	ļ <u>.</u>		1666	1444	334	(4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,	<i>V.G.</i>	Y444		994.	223	333	1444	1,660	GGGG,	(66,66)		9999	4839	ļ			
سبسا	سبسا		٠٠٠٠			 	ļ 	 	إسبسا	666	1699	7	~~	1	224	66646	444·	444	3333	444			<i>1999</i>	666		h	↓		FWOZ 4839	
					Δ3	·	10.8	-182		1999	<i>9999</i>	HA.	~~~~~	1999.	230	99999	999	225	799	999	999	9999.	19999	1999	999	4942	 	30-Oct-19	pitch to home at 6.5 deg, BWOZ 4942	
. 5		···- ; ····	····		A3 A2inv	180	19.8	1	† <u>-</u>	1222	$\wp \wp \lambda$	999A	2221222	1222	231	P222 Y 2	24	928	922A	2222	12222	9999	12222	1222	1222		1	, 50 500-19		
								·		1222	222	722X	22 3 22	1222	1222	122X	22	232 233	2224	222	122	222	1222	1222	1222	5013			FWOZ 5013	
					A3	0				<i>[2][2]</i>	[///]	2/2X		UU_{i}	V/U		77I.	233	222	222				<i>[2][2]</i>	<i>[]]]]</i>		1	ļ	FWOZ 5013 pitch to home at 6 deg	
		<u>'</u>	ļ <u>'</u>			ļ		ļ	ļ	1466	K4661	333	(4) (4) (4)	1666:	\$4 <u>44</u>	[335] [3	73X	744	334	234	1666	4446	[4444	1666	K666	5014	ļ	ļ <u>.</u>	pitch to home at 6 deg; void pt 5039, BW OZ 5014	
	ļ .	:	· ;	·	A4	ļ <u>.</u>		ļ ;	 	<i>[4444</i>	[<i>1994</i>]	944¥	,,,,,,,,,,,	<i>\$666</i>	235	<i> </i>	334	236	994			gggg,	1,7,7,7,	<i>[4444]</i>	17.77.7	5014 5040	 	ļ ;	BWOZ 5040	
		h				₩.,	 	 	إستسا	1999		99	44. 1	1999	237	1994 B	94	230	999			9999	1999			5076	┿┉┉	 	BWOZ 5076	
		,					;	, , , ,		(222)	12224	2220	9221222	19227	レジシ	22232	224	238	2221	922	2222	82222	12222	12222	2222		, , , ,	•	B11 02 3 4 7	
6					A3	1	19.8	-250						1777	241	7777	220						7777			5144		30-Oct-19	BWOZ 5144	
		,	'	,	A2inv	180	·			7777	7777	777		777	242	7777	774	777	777	7777	7777	7777.	11111	111111	777		I			
سيسا		سبس	سيسا			سيسه	سبس	سيسا	بسيسا	1444	222	44		<i>V.</i>	VIII.		44.	243	444			uu,	1000		444	5252	سبسا		FWOZ 5252 pitch to home at 6 deg pitch to home at 6 deg, FWOZ 5309	
ŀ <u>:</u>	ļ .		 	ļ 	A3	0	ļ <u>:</u>	ļ -	ļ <u>-</u>	666	1993	333	353855	1660	V 999	86646	994	244	3333	245		6666	8666 6	6666	1999	5309	 	ļ -	pitch to home at 6 deg	
					Λ4		·····	4	1	1999		99A	77 .	1777	1999	222	994	246	333	1777	1999	9999	5555	5555	1999		4			
		,	,		A4			, ,		1222	222	722	99 / 1/99	1222	247	222	24	246	722	9999	1777	222	1999	1999	222			·····		
											Z/Z	222	777777	1772	200	222	24.	248	777			222	97777	2222	222	5340	<u> </u>	,	FWOZ 5340	
	l:	<u>'</u>	l <u>'</u>	l	l	l:	l	L'		922.	1222	222	aaaxaa	<i>1222</i> .	249	1222	24	928	222	222	1222	999	<i>V.2222</i>	Yaaaa	<i>1222</i>	1	l'	l		
	r	0.00	0.00				T			12222	F2227	7777	222212222	12.22 ^N		hange to	remov	e tails	and co	nvert	to Wing	g-Body C	onfigura	tion	V222	r	1	1	DWOT SEE - 1 - 1 - 1 - 1 - 1	
9		Off	Off	FPD	A3 A2inv	0 180	19.8	-250		1555	65551	35A	6664666	1655:	257	35545	33¥	555¥	333	9555	V555	99995	(5555)	15555	B555	5474	254	,	BWOZ 5474, pitch to home at 6 deg	
سبس		,	سبسا			100		سبسه	إسبسا	1999	7777	994	~~ ~	1999	1777	9999	<i>77</i>	259	999	999	1999	999			1999		سبسا			
				·····	A3	0	,	·		1777	1997A	77X	222/22	1777	1222	77777	777	260	222	222	(27)	9999	17777	1777	1777		†		pitch to home at 6 deg	
			,				,	<u> </u>			222	222		1777	1///	77777	774	777	7777	262			7777	2222		5543			BWOZ 5543, pitch to home at 6 deg, void run 261	
·	·				A4	l	'	L'		VIII.	V///A	ZZA.	(((8/1/)	\$220	V ////	2222	24.	263	224	944	144	444	11111	1444	100	·	L			
			ļ			ļļ	ļ	ļļ	أسيسا	1444	1444	444		144	264	1444	24	$z\omega a$	244	944		<i>444</i>		444		ļ	<u> </u>	ļ		
		···· · ····				ļ	ļ	ļ		999	1999	994	(3),14\delta	1999	Y////	35540	994.	265	994	999		9999	19999	19999			ļ			
10			 	 	A3	 	30.0	-250	turul	1999		999¥	777)	1000	266 267	1994 H	94.	994	444)							5640	+	 	BWOZ 5640, pitch to home at 6.5 deg	
	†				A2inv	180	,	1		(22)	1777	22%	?? ? \$\$\$	1777	268	P//10	7/X	727A	222	772	1772	777	1772	1000	1772		†		D. O. D. O. O. D. D. O. D.	
		, , , , , ,	,	I		I		I		VZZ	$VZ\Delta$	224	2221222	U/2	V///	2222	224.	269	222	2222	2222	2222	<i>[2222</i>]	V222	(222)		Ι	L		
	ļ		'		A3	0				(////	(///3	777	,,,,,,,,,,,,,,	1777	Y////	1,7,4,7	<i>9</i> 74.	270	,,,,,	222	7777	944	17777	(7,7,7	777				pitch to home at 6 deg	
ļļ		ļļ	ļ .		<u> </u>	↓	 	 	إسبسا	144	1444	444	44444	¥44,	¥222	K4444	44	444	444	272	1444	444	1444	1444	1444	5779	↓	ļ	FWOZ 5779, pitch to home at 6 deg	
		ļ .	·	·····	A4	ļ .	ļ		ļ;	1999	BBA	35A	### # ###	1666	(2/3)	<i>999₩</i>	99 4	274	333A	1999	1000		1999	1999	1999		····	·····		
						·	 	 	·	1999	MARKET A	\mathscr{H}	99.W.	¥99.	275	1999 (P	99	274	999A	9999		9999			1999		 	·	l	
	, , , , , , , , , , , , , , , , , , ,	h	h		·	† ~~~	·····	4~~~	4	1772	17//1	7/1	77 . 1 777	1777	1777	1991	7/1	276	7///	1///	1777	7///		17/1/	17/1	5797	4~~~		FWOZ 5797	
8			L		A3		19.8	-182			[222A	222	222122	$\mathcal{U}^{\mathcal{U}}$	278		23	4771	222	922	1222			<i>[222]</i>	122	5797 5857		7-Nov-19	BWOZ 5857, pitch to home at 6.5 deg	
	ļ		, , , , ,		A2inv	180	1	1		(7,7,7	1774	277	(4474)	977	279	22272	771	222	224	977	1777	444	<i>[[]]]]</i>	(777)	1777		1	1		
		-	ļ .		A3	ļ <u>`</u>	ļ .	ļ	ļ	1333	<i>[335</i>]	333k	,,,, ,, ,,,,,	1656:	1666	[335 4 3	334	280 281	3331	9999	1999	3555	[6556	1999	K666		ļ		with to be a set of the day of DM to be	
	ļļ	سبسا	├ ──	 	,	0	 	╆┷┿┉	إسبسا	<i> }}}}</i>	 	444 4	4444	ff.	<i>₩₩</i>	KAA	34.	281	944	282	1999	4444	1444				4	 	pitch to home at 6 deg due to PM trip FWOZ 5984, pitch to home at 5.5 deg, void pt 5952	
		;			A4		 	 		1999)		99N	999\$999	1999	283	1994B	94	994	999	7777		999		V////	1999	5984	 	·	г w од элоч, риси w ноше at э.э deg, void pt элэг	
••••	1	hayan	min	, ,,,,,,,,,	haijiaa	+	1	4~~~	4	1222	[777]	22A	77 7 8777	1777	V 7777	D2210	77#	284	222	777	1772	77777	17777	1222	1222	ļi	 	ֈ ~~~		
,		,		I				' '		17/2	1///	994	111 X 111	1777	285	2220	7/X	(777)	994	4//	1111	4///	<i>(2/2)</i>	WHA	1///	6020	<u> </u>	I	FWOZ 6020	
	L	L	<u> </u>	L	L	ل	1		سسل		222				1////		221	286	222		1222		<i>12222</i>	1222	<i>[222]</i>	L	1	L		
	,,,,,, ,,,	ي	,,,,,,, ,,	,	مسيسم	,r	يسم	,,,,,,, ,,	,,,,,,,,,,	,,,,,,,,,,	12224		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		possos	N	lodel	change	to add	d trip d	lots to	wing	poor	process	errer		4	سسببيم		
- 11	1	On	Off	FPD '	A2	0	5.0	120	6	1666	KKA	290	44 4 44	<i>¥///</i> c	V	666A	///\	443	444	444	1444	HHH.	<i>}}}}}</i>	<i>}}}}</i>	1444	6143	254	8-Nov-19	temperature control issues at 4-5 deg alpha	
		··· · ····			A2 A2inv A2 A2inv	0 180 0 180	ļ .		ļ	1666	[555]	291	99 4 999	1655	292	<i>555\$</i> 6	99¥	999 3	333	9555	1555	5555	15555	19999	1 5555	6353	·	 	-2 deg alpha @ 123 deg F, void pt 6165, pitch to home at 6.5 deg, BWOZ 6144	
سبسا	اسبسا	سبسا		•••••	A2inv	180	 	+	إسبسا	1999	MA	99A	91 / 1/10	177	293	HH	//¥	///\}	99A	999		999.		1999)	1999	6353	إ سبب	 		
ļ	ļ			,	,	1	,	1	[1222	[222A	22A	22 X 77	W	$\mathcal{U}^{(i)}$	1227V	27	294	797A	222		200	000	1220	122	·	1	1		
•	•	•	•	•	•	•	•	•	•						~~~~			•		~~~~							•	•	•	

NTF Test 229 - Common Research Model Run Log

	Conf	: 1		Data	~		D ₀ C	Tom	Slots										N	Iach 1	Numb	er												Tare		
Series	- Com	Trips	Tails		(dog)	(dog)	(million)				0.20	1 0 3	25 0	40	0.50	0.60	0.	70	0.80	0.93	0	95	0.86	0.87	0.8		0.90	0.00	-	0.01	0.92	ν	voz	Run	Date	Remarks
,	, š			Type	(ucg)	(ucg)	(111111011)	(1)	·	1777	10.20	100	110	77	0.50	///	10	ÿ.Ł	0.60 GG.	0.03	. 3		1111	()()()	0.00	10	1.69	1111	11/	777	111	J	- ;	Kun		void run 295, pitch to home at 6 deg
					A2	· · ·				No Com	444	4ω	444	44	44		44	$\omega \omega$	44	KAL	4.4	90 J		alda	444	44		244	440	444	144	4		J		***************************************
			L'	l	1	'	'	1	L'	1000	xaa	200	6400	224	900	000	422	242	900	122	900	220	000	297	1000	200	200	200	000	000	000	И		<u> </u>	'	pitch to home at 8 deg
		,	,		,	,	,	, , , , , , , , , , , , , , , , , , , ,	1	1777	1777	17/2	282	72X	222	777	29	99 F	777	777	777	24	777	222	722	777	777	777	777	777	1117	7	,	,	,	void run 298
	· · · · ·	,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	سنسا	1222	922	7122	777	22	977	777	177	2N	977	777	3	00 .	7777	777	777	772	222	7777	777	777)	777	7~~	· ,	, m		
,		,	,		,		,	;		1990	1000	W2.	2000	72A	777.	999	30	01	777.	100	777	2//	999	777)	X775	900	990	999	700	999	000	g	,	,	,	•••••••••••••••••••••••••••••••••••••••
	+		;					·		1999	4000	2420	2000	694	999	(299)	\mathcal{V}^{2}	2.0	990	1000	g_{ij}	n 1		999	499	90	999	9999	100	252	999	9 -				······································
	+	- 						ֈ ~~~		144	and the same of th	464	Griffigh	999	المواولون	of the state of	466	44		144	الرجام	77	laft for	$\varphi \varphi \varphi$	West of	466	444	defilip	966	444	left fr	4				•
	1					1		1		1000	166	GGG	200	7//	777	GGG	360	α	777	100	766	74	999	111	X///			999	7/7	990	000			1		<u>l</u>
	VMD Wind-Off Polars																																			
0	3	On	0	VMS	A1	0	0.0	120	2	22	100	W	700	77X	777	999	X0	9X)	777.	V ()	W.	7/1	999	777	W/)	900	900	997.	W	99	900	9				
		,	,		,				6	31	1977	7.877	1777	227	ワファ	777	M/l	777	71/2	1///	977	22	1777	777	W22	777	111	1///	W.	(11)	1111	4				
										75	777	772	7770	77	777	777	177	770	777.	177	777	77	222	777	1777	777	777	777.	117	777	222	g				
	+		;				,			08	1220		999	995	999	1990	M2	200	999	000	999	220	1999	999	992	200	222	9999	999	1999	1995	J		 -		······································
	+		h		h	h	h	 	4	20	A STATES	464	9969	99	gargariga.	highing	466	646	gggg.	14	46	74	4	444	Hirris.	466	444	hafafa	46	44	44	4~~	~~~~		~~~~	•
									4	99	1666	HG	346	994	999	666	$\mathcal{H}_{\mathcal{G}}$	Æ	999	666	966	600	250	999	466	40	999	9999	860	666	666	Я				
L			L'		l	ļ <u>'</u>	<u>'</u>	L	l'	119	900	$\alpha \omega$	949	994	900.	1000	M/2	242	900	000	900	940	000	999,	2000	400	200	777	900	000	000	4				
L'		Off	'		l'	'	'	L'	6	203	100	Ma	αa			aaa	x_{i}	ax	200	ua	ML	240	200	000	XIII	Ma	aaa		202		000	a		1		
																		Tur	nel C	Confie	uratio	on Ch	nange	to rer	nove S	lot C	overs	(6%)								
	Τ		T		ŗ	۳	1	1	1	7~~~	V22	7/2	7.00	771	777	777	377	700	777.	177	777.	77	777	777	477	707	770	777.	777	777	777	7		1		1
	+				†	·		†	!		1222	2122	212	221	999	1220	10	2010	999	600	X	220	2000	999	900	92	222	1999	000	255	1220	H -		 -		

Alpha Sweep Schedules

A1 (twics): -3 to +1 by 1, 1.5 to 5 by 0.25, 5.5 to 11.5 by 0.5 A1b (twics): -3 to +1 by 1, 1.5 to 11.5 by 0.5

A2 (CRM): -2, -1, 0 to 2.5 by 0.5, 3 to 6 by 0.25, 6.5 to 11.5 by 0.5 (0.25 and 0.7)
-2, -1, 0 to 1.5 by 0.5, 2 to 5 by 0.25, 5.5 to 11.5 by 0.5 (0.85 and 0.87)
A2inv (CRM): -1.5 to 1.5 deg by 0.5

A4 (CRM): 3 to 6 deg by 0.25 (0.25, 0.7) // 2 to 5 deg by 0.25 (0.85, 0.87)

Configuration Key

: Wing/Body (WB) 2: Wing/Body/Pylon/Nacelle (WBPN) 3. Wing/Body/Horizontal Tail (WBT)

Data Type Key
FPD: Force, presure, and deformation data, timed 8 sec data point @ 40Hz

TWICS: Tunnel wall interference correction data

VMS: Video model deformation wind-off data

Acronym Key

BWOZ: Beginning wind-off zero FWOZ: Final wind-off zero

FA: Flow angularity

FAS: Facility automation software

TT: Tunnel free-stream temperature

OOT: Out of tolerance

DS: Deep structure PTH: Pitch to home

OS: Overshoot

PB: Pitch back P/R: Pitch/roll

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